

VisRate.NET 2.1 Release Notes

VisRate.NET 2.1 is now available at <http://www.crab.wa.gov/Mobility/MobilityWeb/pages/visrate.cfm>. VisRate.NET 2.1 has improved on previous versions in several beneficial ways. The table of contents below lists the new changes and features in VisRate.NET 2.1.

No major changes have been made between VisRate.NET version 2.0 and 2.1. VisRate.NET 2.1 will work with the VisRate.mdb file used with VisRate.NET 2.0 if you wish to continue with the same database file.

**** Remember to back up any existing data to another directory before uninstalling previous versions of VisRate and installing VisRate.NET 2.1.**

If you have any questions please call CRAB at 360.664.3299, and dial Eric Hagenlock ext. 241, Jim Oyler ext. 243, or Kathy O'Shea ext 222. Or send an email to visrate@crab.wa.gov

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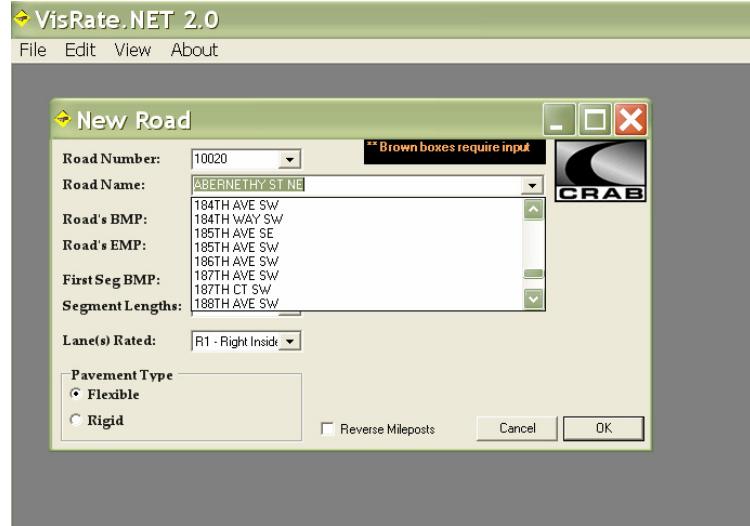
1. Export from Mobility

Mobility 1.4.0 now has the functionality to export an Access database for VisRate.NET 2.0 (and VisRate.NET 1.0) containing county specific road names, road numbers, each roads BMP and EMP, and most recent PSC information. Please see the Mobility 1.4.0 release notes for information on how to use this tool.

I. Road Numbers and Road Names

A combo box for both road number and road name exists in the “New Road” form in VisRate.NET. After exporting an individual counties road information from Mobility and making it available to VisRate.NET the road number combo box will have all of the valid road numbers for each county and likewise for road name. See figure 1 below.

Figure 1: “New Road” form with the Road Name combo box active.



II. Previous PSC

The most recent PSC data is exported from Mobility along with the road number and road name data. To view this information click the arrow on the “Flexible Rating” form or the “Rigid Rating” form in the upper right hand corner. A table containing the columns PSC, BMP, EMP, Rating Date, and Lanes will then be displayed with PSC records that are specific to the segment currently being rated. See figure 2.

Figure 2: “Flexible Ratings” form with the previous PSCs table visible.

PSC	BMP	EMP	DATE	LANE
100	0.000	0.100	9/22/2005	A2 - All 2 Lanes
100	0.100	0.200	9/22/2005	L1 - Left Inside Lane
84	0.100	0.200	9/22/2005	R1 - Right Inside Lane

2. VisRate Properties

Feedback from users of the previous versions of VisRate.NET made it clear that different users had varying preferences for the default values of certain fields throughout the application. To enhance ease of use a Properties form has been added. Display the properties form by clicking the “Edit” menu then the “Properties” option. Below is a list of available properties settings and a brief description for each.

I. Default Segment Length

The default segment length can be set to any length desired by the user. This default value will auto fill the segment length field on the “New Road” form. If the user enters a default segment length that is greater than that of a road that is selected in the “New Road” form then the segment length will be automatically set to the length of the road.

II. Default Lanes Rated

The default lanes rated can be set to any of the available lane options in the combo box. The default lanes rated property will then be used to auto fill the “Lanes Rated” combo box on the “New Road” form.

III. Default Distress Length

The default distress length property can be set to any value between 1 and 100. This property will be used to auto fill the “Distress Length” value on the “Flexible Ratings” and “Rigid Ratings” forms.

IV. Auto Fill Mileposts

When a road number or road name is selected on the “New Road” form the roads BMP and EMP according to Mobility data will be auto filled if the property is “checked.”

V. Core Distresses Only

If the property is “checked” only the alligator, transverse, longitudinal, and patching distress controls will be visible on the “Flexible Ratings” form, and only the cracking, joint cracking, pumping and blowing, faulting and settlement, and patching on the “Rigid Ratings” form. This option can be “checked” or “unchecked” at anytime within either of the ratings forms.

3. Running PSC Score

After any distress is recorded in the ratings forms the PSC score is recalculated and displayed. The PSC score appears on either rating form in the upper center of the form labeled “PSC.” See figure 3.

Figure 3: Notice the PSC score circled in red below.

The screenshot shows the "Flexible Ratings" window. At the top, there's a date field set to 5/31/2006 and a "PSC:" field containing the value 100. A red arrow points to the "100" in the PSC field. Below these are sections for "Current Road" (Rd#: 10020, Street: ABERNETHY ST NE), "BMP:" (0.000), and "EMP:" (0.760). On the right, under "Flexible Distress", there's a "Low" section with a "Transverse:" field set to 0. The "Longitudinal:" field is also present.

4. Core Distress Calculations

I. Flexible

Transverse, Longitudinal:

$$\text{Amount} / (\text{length} * 5280) * 100$$

Alligator, Patching:

$$\text{Amount} / (\text{length} * 5280 * 2) * 100$$

II. Rigid

Panel Cracking, Patching:

$$\text{Amount} / (\text{length} * 460) * 100$$

Joint Cracking, Faulting and Settlement, Pumping and Blowing:

$$\text{Amount} / ((2.5 * (\text{length} * 460)) + (\text{Low-Panel Cracking Count}) + (2.5 * \text{Med-Panel Cracking Count}) + (4 * \text{High-Panel Cracking Count}))$$